

# Swarup Srinivasan

Cell: 437-228-3950, **Devpost:** [swarupsrinivasan](#)

**Email:** [swarup.srinivasan@mail.utoronto.ca](mailto:swarup.srinivasan@mail.utoronto.ca)

**LinkedIn:** [swarupsrini](#), **GitHub:** [swarupsrini](#)

**Website:** [swarupsrini.com](#)

---

## EDUCATION

**University of Toronto**, Honors Bachelor of Science

**Sep 2018 – Dec 2021 (Expected)**

Computer Science Co-op, Entrepreneurship Stream, 4<sup>th</sup> year

CGPA: **3.82** / 4.0 – Dean's List of Academic Excellence

Teaching Assistant: Intro to Software Engineering (CSCC01), Operating Systems (CSCC69)

**World topper** of Computer Science, Cambridge International A levels

---

## SKILLS

- **Languages:** Python, Java, C++, C, HTML, CSS, JavaScript, WebAssembly, SQL
- **Frameworks:** React, React Native, Flutter, Spring Boot, Pandas, Spark, TensorFlow, Keras, scikit-learn
- **Concepts:** REST APIs, Multithreading, Agile methods (SCRUM, Test Driven Development), CI/CD
- **Tools:** Git, Jira, Microsoft Azure Cloud, Figma

---

## EXPERIENCE

**Amazon** – Incoming Software Development Engineer Intern

May 2021 – Aug 2021

**BlackBerry** – Software Developer Intern

Sep 2020 – Dec 2020

- Developed a tool using WebAssembly to compile and execute a large analysis engine in-browser efficiently
- Debugged and fixed critical issues in multithreaded threat analysis engine used by **10+** applications using C#
- Increased efficiency of a vehicle simulation dashboard by **50%** by using sensor data, and revamping the UI/UX
- Built a data conversion tool using Apache Thrift RPC framework in Python to implement client-server networking

**University of Toronto** – Machine Learning Engineer Intern

Jan 2020 – Apr 2020

- Led development of tool to predict job salaries with **86%** accuracy by using natural language processing to build machine learning models with TensorFlow, Python on Azure Cloud distributed systems
- Reduced REST API deployment time by **67%** by optimizing pipeline using Docker and Kubernetes
- Presented report interface built with HTML, CSS, JavaScript to team of **7** non-technical HR managers
- Decreased MySQL query time by **15 minutes** by creating module to automate query generation

**Google Developer Student Club** – Software Developer

Jan 2020 – Jun 2020

- Increased essential resource accessibility by **10%**, by creating a cross-platform mobile app in a team of 4 using Flutter to provide offline access to resources such as local food banks and homeless shelters, with SMS ([GitHub](#))

---

## PROJECTS

**Virtual Queue Manager** – ([Website](#), [GitHub](#))

Jun 2020 – Present

- Website to manage store queues with store searching and analytics, real-time queue monitoring, QR validation
- Technology: MongoDB, Express, React, Node.js, Google Maps API

**Escape Room Game** – ([GitHub](#))

Jun 2020 – Present

- Escape room puzzle game with a ray-casting 'grabbing' system for players to move objects and escape the room
- Technology: C++, Unreal Engine

**Style Matcher** – ([GitHub](#))

Feb 2020 – Feb 2020

- Website that suggests clothing by 'matching' user wardrobe to catalog which reduces shopping time by 90%
- Technology: React, Python, Flask, Google Computer Vision API, Figma

**Spotify API Clone** – ([GitHub](#))

Feb 2020 – Feb 2020

- REST API for a music player created using microservices to friend/follow users, like songs, create playlists, etc.
- Technology: Java, Spring Boot, MongoDB, Neo4j

**Secure File Transfer System** – ([GitHub](#))

May 2019 – Aug 2019

- System for secure file transfer from server to clients. Handles concurrent requests with 0% degradation in speed
- Technology: C, sockets, I/O multiplexing, UNIX